AMENDMENTS TO THE SPECIFICATION

On page 36, lines 22-29, please replace the paragraph beginning on line 22 and ending on line 29 with the following amended paragraph:

The sequence for Kv3.4a is in Gene Bank under accession number X62841 (SEQ.ID) NO:6; gtgcgcttct ctgtctttct ggggttgggg ggggcgtgtc cccggcccgg agcatccttg tgcttgcctc aaccttctga gaccceggac ccettggatt gagteetega ecctggtett caccteetge etcecetagg ttetteetge caaateecaa ecacetgtge accacaaaaa gccaactett cetgeteega gccceggggg ggtggggtgg gggggaggea ggggcagage cactetgeag aaggggccgc caccacctec tgcctcctcc tectecacca cetectectc ettetegtet cetececete ecegttetga egetgeetee ttgggaaggg tgtttggagg geageggeeg ecceaageeg gageeeegea gegettetta tgateagete ggtgtgte tectectace gegggegeaa gteggggaae aageeteegt eeaaaacatg tetgaaggag gagatggeea agggegagge gicggagaag atcatcatca acgtgggcgg cacgcgacat gagacctacc gcagcaccct gcgcacccta ccgggcaccc gccttgcctg gctggcggat cccgacggcg ggggtcggcc agagtcggat ggcggcggtg caggcagcag cggcagcagc ggcggcggcg ggggctgtga gttcttcttt gatcggcacc cgggtgtttt tgcctatgtg ctcaactact accgcacggg caagetgeat tgeecegeag aegtetgtgg geetetettt gaggaagage teaetttetg gggtategat gagacagatg tggaaccetg etgetggatg acetacegge ageacegega tgetgaagag geactggaea tettegagag eceggaeggg ggcgggggtg gcgcagggcc cggcgacgag gctggagacg atgagcggga gttggccttg cagcgcctgg gcccccatga aggaggetet geceetggte etgggteegg gggttgeegt ggetggeage ecegaatgtg ggegetette gaggaeeegt acteatecce agegaceage attactact titretteate titateca traceacett etgeetaga acceaceage cetteaacat tgacegaaat gtgacggaga tecacegggt agggaatate accagegtge getteeggeg ggaggtagaa acagaaccca ttettaccta categaggge gtgtgegtga tgtggtteae tetagagtte etggttegea ttgtgtgetg ecetgataeg tiggactite teaagaacet geteaacate ategactite tegecatett gecettitae etggageteg gattgagteg eetgteatee aaggeagete gagatgtget gggttteetg egtgtggtge getttgtaeg eateetgegg atetteaage teacaegeea ctttgtgggg ctgcgtgtgc tcggccacac actccgggcc agcaccaacg agttcctgct gcttatcatc ttcctggccc tgggtgtgct catctttgcc accatgatct attatgctga gcgaatcggg gccaggccat ctgacccacg gggcaatgac cacaccgact teaagaacat ecceateggt tietggtggg etgtggteae eatgaeaaeg ettggetatg gggaeatgta tectaagaca tegteaggaa teetegtege teegetetet ecactegeig etgteetaac cattegeate ecteteete teategteaa taactttegt atgtactact ecctegetat egecaageag aagetteeca agaaaegaaa gaageatgta eeaeggeeae cccagcitga gicacccatt tactgcaagt cigaggagac ticaccccgg gacagcacct acagtgacac cagcccccct gcccgggaag agggtatggt cgagaggaaa cgagcagact ccaagcagaa tggtgacgct aatgcggtgc tgtccgatga ggagggaget ggeeteaece ageeeetgge eteggeeece acceetgaag agegtegage eetgagaege teaggeaeae

gggacagaaa caagaagca getgeetget teetgeteag tgetggggac tatgeetgt etgatggeag tgtecagaaa gaaggcagtg ttgageegaa agegtgegte eeagtgtete acacetgtge tetttaaaca cagagacetg eeaagacgee etetetgteea actatgeeca tgetgaagte eteaceetet ettagageeg caceaacgtg agaaagacag acagacagaa agecagagge ttaggaaaac tettggaacee aggeacgaat ettttgetgg gaaagatate ettgtttgea eaagacagaa ggaaaaaatet eecatgeaac teteagggee eagageeate tgggtetgat actetgttet actgtacatt gaagagacat atatgeacat atagtateta tatteataca tactatatac tettgtgtgt agtgeacgtg etactggtgg tetgtettea tegttagget atgteecea agteetetge ecaceetgtt teeceaceee etetteette atggattgtt tettetgace atgtttttgg agtgteecag gagaggtata eetgggacet geeetgetga etaggtggee ecaggggget etacettggg ggtgteecet geeageaggt ggeetgetga agteagttga aggeacgatt geeetteetag ggteactget eteacttggg ggtgteecet geeageaggt ggeetgetga agteagttga aggeacgatt geeetteetgg ggteactget teactage). The sequence for Kv3.4c is identical to the Kv3.4a sequence except that 62 bp (position 2222-2283) of Kv3.4a are absent in Kv3.4c. As a result of this alternative splicing, the first 608 amino acids of both variants are identical, but the last 17 (for variant a) and 19 (for variant c) amino acids are completely different. Both variants are described by Rudy and colleagues in Veaga-Saenz de Miera E. et al. (1993) Shaw-related K channels in mammals. in Handbook of Membrane Channels: Molecular and Cellular Physiology. (Peracchia C, ed. Academic Press, Orlando) pp 41-78.